WHAT IS CLAIMED IS:

l	1	•	A folding knife comprising:		
2	а	refere	nce piece having an arcuate slot with a convex extension slot positioned at		
3	one end of the a	rcuate	slot;		
1	а	latch	cam having an offset pin at least partially engaged in at least one of the		
5	arcuate slot or c	onvex	extension slot;		
5	а	blade	having a hole configured to receive the latch cam; and		
7	а	spring	g mechanically coupled to the offset pin and configured to exert a force on		
3	the offset pin in a direction of blade opening				
l	2	2.	The knife of Claim 1, further comprising:		
2	а	pivot	pin; and		
3	v	vhereir	the blade further comprises an additional hole configured to receive the		
1	pivot pin, and th	ne blad	e is configured to rotate about an axis of the pivot pin.		
l	3	3.	The knife of Claim 1, wherein the reference piece comprises a liner.		
l	4	l.	The knife of Claim 1, wherein the reference piece comprises a handle.		
l	5	5.	The knife of Claim 1, wherein the offset pin is positioned substantially in		
2	the convex exter	nsion s	slot when the blade of the knife is rotated less than a predetermined angle.		
l	6	5 .	The knife of Claim 5, wherein the force exerted by the spring on the offset		
2	pin is substantia	ılly imp	peded by at least one wall of the convex extension slot.		
l	7	' .	The knife of Claim 1, wherein the offset pin is positioned substantially in		
2	the arcuate slot	when t	he blade of the knife is rotated greater than a predetermined angle.		
l	8	3.	The knife of Claim 7, wherein the force exerted by the spring on the offset		
2	pin substantially	/ assist	s the opening of the blade.		
l	9).	The knife of Claim 7, wherein the force exerted by the spring on the offset		
<u> </u>	pin rotates open	the bla	ade without additional external force.		

I	10. The knife of Claim 1, further comprising:					
2	a flipper positioned on a side of the knife opposite a side from which the blade is					
3	removed, the flipper configured to receive an external force that at least partially rotates open the					
4	blade.					
1	The legification 10 wherein the files or commisses a material on the					
1	11. The knife of Claim 10, wherein the flipper comprises a protrusion on the					
2	knife extending through the side of the knife opposite the side from which the blade is removed.					
1	12. The knife of Claim 11, wherein the blade opens substantially under the					
2	force of the spring when an edge of the flipper is flush with an edge of a knife handle.					
1	13. The knife of Claim 11, wherein the blade opens substantially under the					
2	force of the spring when an edge of the flipper is above an edge of a knife handle.					
1	14. The knife of Claim 1, further comprising a stud mechanically coupled to					
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2	the blade and configured to receive an external force that at least partially rotates open the blade.					
1	15. The knife of Claim 1, wherein the spring comprises a torsional spring					
2	wound around a pivot axis of the blade.					
1	16. The knife of Claim 1, wherein the spring substantially rotates the blade to					
2	a fully open position when the offset pin is positioned substantially within the arcuate slot.					
1	17. The knife of Claim 1, wherein the spring comprises:					
2	a first spring positioned to a left of the blade; and					
	•					
3	a second spring positioned to a right of the blade.					
1	18. The knife of Claim 1, further comprising a handle configured to position a					
2	portion of the spring.					
1	19. The knife of Claim 1, wherein an angle from a line tangent to the arcuate					
2	slot at a connection to the convex extension slot to a centerline of the convex extension slot					
3	measures less than 180 degrees.					
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1	20. The knile of Claim 1, wherein an angle from a line tangent to the arcuate				
2	slot at a connection to the convex extension slot to a centerline of the convex extension slot				
3	measures less than 135 degrees.				
1	21. The knife of Claim 1, wherein an angle from a line tangent to the arcuate				
2	slot at a connection to the convex extension slot to a centerline of the convex extension slot				
3	measures greater than 90 degrees.				
J	measures greater than 50 degrees.				
1	22. A folding knife comprising:				
2	a latch cam having an offset pin;				
3	a liner having an arcuate slot and a convex extension slot, and configured to				
4	position the offset pin in the convex extension slot when the knife is in a closed position and				
5	position the offset pin in the arcuate slot when the knife is fully open;				
6	a blade configured to rotate about a pivot axis, and having a hole configured to				
7	receive the latch cam, the latch cam rotating in a direction that is opposite to a direction of blade				
8	rotation when the blade is open less than a predetermined angle.				
1	23. The knife of Claim 22, further comprising:				
2	a torsional spring configured to exert a force on the blade in the direction of blade				
3	opening.				
1	24. The knife of Claim 23, wherein the torsional spring exerts a force				
2	, , , , , , , , , , , , , , , , , , ,				
3	sufficient to open the blade to a fully open position when the offset pin is located substantially within the arcuate slot.				
3	within the arcuate slot.				
1	25. A method of positioning a blade of a folding knife, the method				
2	comprising:				
3	receiving at a closed knife an external force configured to open the blade;				
4	moving a position of an offset cam pin from within a convex extension to				
5	substantially within an arcuate slot; and				
6	applying an opening force configured to open the blade to a fully open position				
7	without additional external force				

1	26).	The method of Claim 25, wherein the act of moving the position of the	
2	offset cam pin con	mpri	ses rotating a latch cam positioned in a hole in the blade to move the offset	
3	cam pin from the	conv	vex extension to substantially within the arcuate slot.	
1	27	7.	The method of Claim 25, wherein the act of moving the position of the	
2	offset cam pin con	mpri	ses rotating a latch cam in a direction that is opposite to a direction of	
3	rotation of the bla	ade.		
1	28	3.	The method of Claim 25, wherein the act of applying the opening force	
2	comprises applying a torsional force to the blade.			
1	29	€.	The method of Claim 25, wherein the act of applying the opening force	
2	comprises applying a force to the blade using a torsional spring.			
1	30).	A folding knife comprising:	
2	me	eans	for receiving at a closed knife an external force configured to open a blade	
3	me	eans	for repositioning an offset cam pin from within a convex extension to	
4	substantially within an arcuate slot; and			
5	me	eans	for applying an opening force configured to open the blade to a fully open	
6	position without additional external force.			
7				